

## **AN ULTRAVIOLET RAY LAMP AND STERILIZERS AND CLEANERS USING THE LAMP**

### **ABSTRACT OF THE DISCLOSURE**

An ultraviolet ray lamp comprises a discharge vessel made of quartz glass, filled with a filling. A pair of electrodes is able to generate a discharge in the discharge vessel. An optical filter made of metal oxide, which is partly formed on the outer surface of the discharge vessel, transmits ultraviolet rays of long wavelength and cuts off ultraviolet rays of short wavelength. Furthermore, A device for generating ultraviolet rays comprises an ultraviolet ray lamp generating ultraviolet rays including short and long wavelength, having a discharge vessel made of quartz glass. An enclosure accommodates the discharge vessel, transmitting at least ultraviolet ray of short wavelength. An optical filter made of metal oxide, which is partly formed on at least one side of the surface of the enclosure, transmits ultraviolet rays of long wavelength and cuts off ultraviolet rays of short wavelength. An ultraviolet ray lamp or a device for generating ultraviolet rays may be used for a sterilizer, an apparatus for treating fluid, or an air cleaner.